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## **IFIP – The International Federation for Information Processing**

IFIP was founded in 1960 under the auspices of UNESCO, following the First World Computer Congress held in Paris the previous year. An umbrella organization for societies working in information processing, IFIP's aim is two-fold: to support information processing within its member countries and to encourage technology transfer to developing nations. As its mission statement clearly states,

*IFIP's mission is to be the leading, truly international, apolitical organization which encourages and assists in the development, exploitation and application of information technology for the benefit of all people.*

IFIP is a non-profitmaking organization, run almost solely by 2500 volunteers. It operates through a number of technical committees, which organize events and publications. IFIP's events range from an international congress to local seminars, but the most important are:

- The IFIP World Computer Congress, held every second year;
- Open conferences;
- Working conferences.

The flagship event is the IFIP World Computer Congress, at which both invited and contributed papers are presented. Contributed papers are rigorously refereed and the rejection rate is high.

As with the Congress, participation in the open conferences is open to all and papers may be invited or submitted. Again, submitted papers are stringently refereed.

The working conferences are structured differently. They are usually run by a working group and attendance is small and by invitation only. Their purpose is to create an atmosphere conducive to innovation and development. Refereeing is less rigorous and papers are subjected to extensive group discussion.

Publications arising from IFIP events vary. The papers presented at the IFIP World Computer Congress and at open conferences are published as conference proceedings, while the results of the working conferences are often published as collections of selected and edited papers.

Any national society whose primary activity is in information may apply to become a full member of IFIP, although full membership is restricted to one society per country. Full members are entitled to vote at the annual General Assembly. National societies preferring a less committed involvement may apply for associate or corresponding membership. Associate members enjoy the same benefits as full members, but without voting rights. Corresponding members are not represented in IFIP bodies. Affiliated membership is open to non-national societies, and individual and honorary membership schemes are also offered.

Tomas Skersys Rimantas Butleris  
Lina Nemuraite Reima Suomi (Eds.)

# Building the e-World Ecosystem

11th IFIP WG 6.11 Conference  
on e-Business, e-Services, and e-Society, I3E 2011  
Kaunas, Lithuania, October 12-14, 2011  
Revised Selected Papers

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# Preface

The I3E conference series is now well in its second decade, and you are holding in your hands the 11th edition of I3E proceedings. Issues around e-society seem to become increasingly more important every day. At the same time, the number of conferences, journals and other forums dedicating room to these issues is growing dramatically.

The I3E conference has kept its position as one of the leading academic conferences dealing with e-World issues. As a flagship conference of the IFIP WG6.11 “Communication Aspects of the E-World,” the conference has gained a lot of attention and approval from leading academics in the field, which is reflected in the quality of its proceedings.

As before, this year the conference articles address a broad scope of e-World topics ranging from basic technologies such as service-oriented architecture or semantic ontologies to many types of applications, such as education systems, e-health solutions or e-government.

As ever, this publication is an outcome of the work of many dedicated stakeholders. We would like to thank our basic supporting organizations, IFIP and Springer, for making this proceedings book possible. The conference would not have been possible without the great support of Kaunas University of Technology. The biggest thank-you of course goes to the authors, who decided to share their ideas and knowledge presented in the papers. On the other hand, one cannot forget the editing process behind which there are technical editors, a number of brilliant reviewers as well as local organizers of the event. We would like to thank all of them deeply.

The I3E conference series looks eagerly to the further challenges of the second decade of its operations. Many places have already shown their interest in organizing future conferences. Despite the fast-paced nature of modern science, there is no doubt research and activity on e-World issues will continue with increasing intensity for some time to come. Our task is to catch some of this phenomenon under the lens of high-quality science and document it. We have every reason to believe the knowledge gained will contribute to a better future e-World.

October 2011

Rimantas Butleris  
Rita Butkiene  
Reima Suomi  
Lina Nemuraite  
Tomas Skersys

# Organization

The 11th IFIP Conference on e-Business, e-Services, e-Society (I3E 2001) was organized by Kaunas University of Technology and took place in Kaunas, Lithuania (October 12–14, 2011).

The conference was sponsored by IFIP WG 6.11 in cooperation with TC11 and TC8.

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